INTERNATIONAL SEARCH REPORT

Inti onal Application No PCT/IB 02/03834

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F01D17/16 F01D17/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - F01D

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

ENTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
US 6 314 736 B1 (FLEDERSBACHER PETER ET AL) 13 November 2001 (2001-11-13)	1-3,7,9
column 2, line 16-18 column 3, line 8 - line 16 figures 1,2	4-6,8
US 5 214 920 A (LEAVESLEY MALCOLM G) 1 June 1993 (1993-06-01) column 2, line 21 - line 30 column 6, line 37 - line 40 column 7, line 39 - line 43 figures 6,7,10	4-6,8
WO 02 44527 A (ESPASA OLIVIER ;HONEYWELL GARRETT SA (FR); LOMBARD ALAIN RENE (FR)) 6 June 2002 (2002-06-06) figures	1-9
	US 6 314 736 B1 (FLEDERSBACHER PETER ET AL) 13 November 2001 (2001-11-13) column 2, line 16-18 column 3, line 8 - line 16 figures 1,2 US 5 214 920 A (LEAVESLEY MALCOLM G) 1 June 1993 (1993-06-01) column 2, line 21 - line 30 column 6, line 37 - line 40 column 7, line 39 - line 43 figures 6,7,10 WO 02 44527 A (ESPASA OLIVIER ;HONEYWELL GARRETT SA (FR); LOMBARD ALAIN RENE (FR)) 6 June 2002 (2002-06-06) figures

Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filling date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filling date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 26 May 2003	Date of mailing of the International search report 03/06/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Angelucci, S

Patent family members are listed in annex.

Y Further documents are listed in the continuation of box C.



ini onal Application No PCT/IB 02/03834

	atton) POCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Heievant to claim No.
A	WO 01 53679 A (VIOLA ERIC JOSEPH; ALLIEDSIGNAL TURBO S A (FR); BERNARDINI LUCIANO) 26 July 2001 (2001-07-26) figure 1	1-9
X	US 2 976 013 A (ULRICH HUNTER DAVID) 21 March 1961 (1961-03-21) figure 1	1
A	US 4 557 665 A (SZCZUPAK DAVID T) 10 December 1985 (1985-12-10) column 4, line 33 - line 47 figure 2	1-9
A	EP 0 034 915 A (HOLSET ENGINEERING CO) 2 September 1981 (1981-09-02) page 2, line 14 - line 20 figure 2	1-9
Α	EP 1 128 025 A (MAN NUTZFAHRZEUGE AG) 29 August 2001 (2001-08-29) figure 1	1–3
X	GB 138 592 A (BBC BROWN BOVERI & CIE) 6 May 1920 (1920-05-06) figures 1,2	10
X	US 4 890 977 A (TREMAINE ERIC ET AL) 2 January 1990 (1990-01-02) figure 1	

International Application No. PCT/IB 02 03834

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-9

Variable nozzle device for a turbocharger and method for operating a variable nozzle device

2. Claim: 10

Vane pivoting mechanism

INTERNATIONAL SEARCH REPORT

International application No. PCT/IB 02/03834

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.



Information on patent family members

Int onal Application No PCT/IB 02/03834

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